

**Request to Archive  
With The National Centers for Environmental Information  
For Southern Hemisphere (SH) Automated Snow/Ice Product at 2km  
Provided by OSPO**

**2011-10-06**

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

**1. Who is the primary point of contact for this request?**

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Physical Scientist  
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**2. Name the organization or group responsible for creating the dataset.**

**3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.**

The Operational Automated Southern Hemisphere Snow/Ice Mapping system produces daily snow/ice cover maps for the Southern Hemisphere, which can be incorporated into the NWS NWP models and in climate analysis and research. The system is based on the synergy of METOP AVHRR, MSG SEVIRI and DMSP-SSM/IS data. The output map is prepared in a Platte Carre (latitude-longitude) projection with a 0.018 degree grid size at approximately 2 km resolution.

The implemented algorithm utilizes observations from METOP AVHRR/MSG SEVIRI in the visible, mid-infrared and thermal infrared spectral bands, along with microwave data from DMSP SSM/IS to produce daily snow/ice cover maps for the South American continent, New Zealand, South Africa and Australia regions.

**4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)**

From 2012-08-30  
Ongoing as continuous updates to the data record

**5. Edition or version number(s) of the dataset:**

**6. Describe the level to which the data are processed. For example, are these unprocessed raw observations, derived parameters, quality controlled or inter-calibrated data, etc.?**

This is a derived products(level 2)

**7. Approximate date when the dataset was or will be released to the public:**

**8. Who are the expected users of the archived data? How will the archived data be used?**

NCEP, Climate modeling community  
National Ice Center (NIC)  
NCEP EMC Land Group

**9. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?**

No

**10. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?**

The old version of Southern Hemisphere Automated Snow/Ice Product is already archived at CLASS. This is just an enhancement. The resolution of the new product is increased from 4km to 2km. So the data volume expected to increase accordingly.

**11. List the input datasets and ancillary information used to produce the data.**

MetopAVHRR,  
DMSP SSMIS,  
MSG SEVIRI

**12. List web pages and other links that provide information on the data.**

TBD TBD

**13. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.**

1. External Users Manual (EUM)  
Algorithm Theoretical Basis Document (ATBD)
2. [http://satepsanone.nesdis.noaa.gov/southern\\_hemisphere\\_multisensor.html](http://satepsanone.nesdis.noaa.gov/southern_hemisphere_multisensor.html)

**14. Indicate the data file format(s).**

1. GRIB2

**15. Are the data files compressed?**

gzip

**16. Provide details on how the files are named and how they are organized (e.g., file\_name\_pattern\_YYYYMM.tar in monthly aggregations).**

TBD TBD TBD TBD

**17. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?**

**18. What is the total data volume to be submitted?**

**19. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.**

First version(stage1) will only use metop AVHRR as inputs and it will be available on August 2012.  
The second version(stage2) will use all three input sources and it will be available on July 2013.

**20. Describe the server that will connect to the ingest server at NCEI for submitting the data.**

Physical Location: Camp Springs, MD,20746  
System Name: DDS  
System Owner: NESDIS>OSDPD>OSPO  
Additional Information: Add comments as needed on applicable data types, etc.

**21. What are the possible methods for submitting the data to NCEI? Select all that apply.**

1. FTP PULL
2. FTP PUSH

**22. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.**

1. Direct HTTP/FTP

**23. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?**

No known constraints apply to the data.

**24. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.**

Archiving this data will improved representation of snow cover in Southern Hemisphere which will benefit in climate analysis and research

**25. Are the data archived at another facility or are there plans to do so? Please explain.**

No

**26. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?**

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**27. Do you have a data management plan for your data?**

No

**28. Have funds been allocated to archive the data at NCEI?**

No

**29. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.**

**30. Is there a desired deadline for NCEI to archive and provide access to the data?**

Archive by:

Accessible by:

**31. Add any other pertinent information for this request.**

None

